NSBE-IAE ORG

THE CIRCLE CITY ENGINEER



To Increase the number of culturally responsible Black Engineers who excel academically, succeed professionally and positively impact the community.

Welcome from the Chair

Hello NSBE - IAE!



I am delighted to welcome you to our first edition of the Circle City Engineer for the 2012-2013 year! I want to thank you for your dedication and commitment to NSBE and our mission which is "to increase the number of culturally responsible black engineers who excel academically, succeed professionally and positively impact the community". I can say that your 2012-2013 Executive Board have been focused on just that. We have a wonderful year of events planned, some of which you will read in the next few pages. We hope that you are as excited for the year as we are and we also welcome your suggestions and feedback in making this a wonderful year for the NSBE – Indianapolis Alumni Extension. This year over 10,000 engineering professionals and students will grace our great city in March and we will be ready. We will represent as the premier chapter and serve as the host Alumni Chapter through volunteering, managing the Technical Professional Conference headquarters, hosting networking events as well as hosting one of the nightly entertainment events. Current members and potential members, get ready! This is going to be one of our best years yet!

I, Bianca J. Brown, am proudly serving as the NSBE-IAE 2012-2013 Chairperson. I hold a Bachelor of Science degree in Industrial and Systems Engineering from Wright State University in Dayton, OH Ohio and a Master of Science degree in Engineering and Management from Case Western Reserve University in Cleveland, OH. I am a former member of the Northeastern Ohio Alumni Extension (NEO-NSBE) and the Central Ohio Alumni Extension (COAE). I have served in several National, Regional and Local Alumni Leadership positions throughout the past 6 years. I owe all of my career, professional and leadership development to NSBE. Through this great organization I learned valuable information from mentorships, workshops, training and serving. I thoroughly believe in the NSBE Mission and strive to fulfill it every single day. My favorite NSBE memory was when I attended my first Annual Convention in Orlando, Florida in 2002 and the positive impact the experience had on my life. It changed my life! I did not have any idea of the number of black engineering students and professionals that there were in the country and I never knew engineers could have so much fun too. It was a wonderful feeling to know that I was not alone in the world with regards to my academic and career aspirations. I have been a leader and a spokesperson for NSBE ever since.

It is my hope that you, too, are inspired to continue in your dedication and commitment and join us, NSBE-IAE, as we strive to fulfill the NSBE Mission!



From the Editor

Emeka Ene | Public Relations Chair

Welcome to the 2012-2013 Year NSBE-IAE!

It is time to get excited about all the programming in store for you this year. There are programs for everyone. As your Publications/PR Chair, I will keep you informed about our events that occur each quarter via this newsletter.

NSBE-IAE had a great term last year, after being awarded the Region IV Alumni Chapter of the Year and the Alumni Member of the Year. We are motivated to reach higher heights this year, and we are grateful for the foundation that the past board built.

The Annual Conference Convention will be held in Indianapolis this year. Come March 2013, Indianapolis will be filled with Professional, Collegiate and Pre-College Black Engineers and STEM majors. Let us all come together to make this the best Conference Convention NSBE and the city of Indianapolis has ever seen!

Without further ado, let's find out what NSBE-IAE has been up to during the months of August, September, and October.

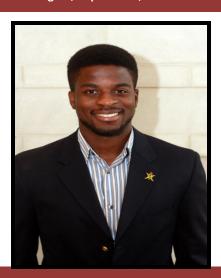


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Indiana Black Expo Children's Day Event

TJ Momoh | Finance Chair







After winning the 2011-2012 Region IV Alumni Extension Chapter of the Year (COY) award, the National Society of Black Engineers – Indianapolis Alumni Extension (NSBE-IAE) continues to organize and participate in the mission-focused activities that won such a prestigious award. NSBE-IAE recently partnered with Cummins Inc. as a Sponsor to put together an exquisite showing at Indiana Black Expo Children's Day event, which took place on Monday, July 16, 2012.

Cummins Inc. is continuously working to strengthen communities, both globally and locally, with a focus on education, the environment, and social justice. Combined with IAE's commitment to Pre-College Initiative (PCI), the two organizations put together one of the most innovative and visually intriguing booths at the Children's Day showcase. With clean energy as the focal point, emphasis was placed on promoting the fields of Science, Technology, Engineering, and Mathematics (STEM). Ingenuity was paramount in order for the elementary and middle school-aged children to successfully assimilate the information.

Cummins Inc. employees and NSBE-IAE members outlined three projects to exhibit sustainable energy and alternative fuel for automotive applications. The first project simulated a car being powered by using the principles of electrolysis and a salt water solution. The second project simulated a car being energized by the electrolysation of Hydrogen from bottled water. The final project simulated a power grid model; which consisted of a wind turbine, photovoltaic cell, and Hydrogen power generating models. Discussion topics ranged from "clean energy" all the way to "global warming". The children learned about the abundant amount of "green" energy topics; including, Energy Star ratings, LEED certifications, Hybrid cars, wind power, solar power, and many more.

The booth was designed to intrigue and capture the attention of all whom passed by through the use of poster boards and overall effective presentation of the information. Over 70 children stopped by the booth during event hours (8:30AM and 3:30PM). It was evident that the children were very enthusiastic about the subject matter; participating in trivia games and asking numerous questions. The booth workers found it particularly refreshing to learn how much the children already knew at their age level. The booth workers were impressed by how the children absorbed the information they learned. Cummins Inc. provided pencils made out of recycled tires to be used as give-away items. The innovative pencil design further reinforced the clean energy message.

The team participants, from both NSBE-IAE and Cummins Inc., were nothing short of incredible. The excitement and energy level from the team was high, which added to the fun and excitement for the children. Many of the parents were impressed with the presentation and the giveaway items. The parents felt that the students were given value-added information, provided an opportunity to engage in activities, and encouraged to consider STEM.

As a result of the experience, parents, teachers and caretakers inquired about NSBE-IAE's PCI programming and mentoring opportunities with NSBE and Cummins Inc. The event was chaired by IAE's very own, Mary A. Simmons, 2011-2012 Region IV Alumni Extension Member of the Year; her support and guidance was inspiring. Cummins Inc.'s Chief Executive Officer, Tom Linebarger, along with his entire Leadership team supported the event. They applauded the team for their support of diversity and education initiatives in the community.

To see more pictures of the event, please visit NSBE-Indianapolis Alumni Extension's Facebook page.

College Initiative off to a Great Start

Angelos Erilus | Collegiate Initiative Chair

The National Society of Black Engineers-Indianapolis Alumni Extension (NSBE-IAE) Collegiate Initiative (CI) is underway! NSBE-IAE is passionate about helping the local Collegiate Chapter reach their full potential while embracing the NSBE mission "to increase the number of culturally responsible black engineers who excel academically, succeed professionally, and positively impact the community."

NSBE-IAE started off this year's CI programming by having several IAE members attend the Executive Board meeting of the local Indiana University Purdue University Indianapolis (IUPUI) Collegiate Chapter. IAE Board members shared their experiences with the IUPUI Executive Board. The IAE Board members sat amongst the collegiate members to exemplify unity between the chapters. The Collegiate members actively listened as each IAE Board member provided advice to them on various topics and shared their experiences. Each IAE Board member was filled with excitement as they spoke about their "NSBE Journey." The atmosphere eventually changed rapidly from what started off as a normal NSBE meeting with AE mentors, to a pep rally. At the conclusion of the meeting, the IAE board members let their excitement out even more as they began to vocalize the NSBE Regional chant of their previous collegiate chapter.

The IUPUI Collegiate Chapter is looking forward to working with IAE, and is ready to represent Indianapolis as we host the NSBE Annual Convention in 2013. The IUPUI Collegiate Chapter can feel the positive energy and enthusiasm radiating from IAE and can tell that the Alumni members are excited about mentoring them to be the best.

IAE has planned an array of CI interactions and programming planned for the





year. In August, IAE hosted their first membership event, NSBE Family Reunion, and invited the IUPUI chapter members to attend. In September, IUPUI hosted a NSBE Week in which one of the days was designated to be Alumni Day. During that meeting, NSBE Alumni and IUPUI members had an opportunity to participate in a Speed Mentoring workshop. This workshop was designed to allow the IUPUI members to interact with members of IAE through answering questions and sharing experiences. Later in the year, IAE plans to host a two-day event where the collegiate chapters of Indiana will have the opportunity to travel to two businesses in Indianapolis and participate in on-site professional development activities; including mock interviews with actual managers and HR representatives from the organizations. This event will help prepare the students for the Annual Convention in March. At the end of the year, IAE is planning to present scholarships to collegiate members at IAE's End of the Year Celebration as well as host a "cross-over" dinner with the Graduating Seniors where the Alumni members will congratulate and welcome them into the Alumni Extension.

Examples of CI programs that IAE has planned for this year:

- NSBE Family Reunion
 - •Weekend of Fellowship and Fun
- •IUPUI NSBE Week: Alumni Day
 - •Speed Mentoring session to allow IUPUI members to interact with IAE members
- Company Visits to local Indiana Businesses
 - Mock interviews conducted by company representatives
- •End of the Year Banquet
 - •Recognition Dinner to present scholarships

IAE has an exceptional year in front of as we plan to not only defend our title as Region IV AE Chapter of the Year, but also to prepare the IUPUI collegiate chapter to be recognized as Collegiate Chapter of the Year.





NSBE IAE Family Reunion Weekend

Carrie Woods | Membership Chair

This year NSBE Indianapolis Alumni Extension kicked off the 2012-2013 year with a Family Reunion Weekend. This was an opportunity for past and present members to have fun and fellowship together. On August 25th, the first day of the Reunion Weekend, the IAE chapter had an event at Dave and Busters restaurant, and arcade. IAE members and friends had a great time eating, drinking and networking. The IAE Executive Board had the opportunity to introduce themselves and their initiatives for the upcoming year. There were two give-aways and attendees had the opportunity to pay their local dues along with purchasing IAE polo shirts. Everyone had a great time playing in the arcade. There was an intense competition at the basketball game while other NSBE members sweated playing the high intensity games.

IAE continued the festivities on Sunday, August 26th at the Incrediplex Sports and Recreation Center. The men of IAE participated in a New School versus Old School basketball tournament, while the ladies cheered them on. The tournament consisted of three games. After an exciting rivalry, The New School team took this year's title. In NSBE IAE tradition, the party did not stop after 3 basketball games and a weekend packed with events. After the games, the IAE family enjoyed more fellowshipping at the restaurant in the Incrediplex.

The NSBE IAE Family reunion weekend was a huge success. The feedback from the survey afterwards was that each person was hugely pleased with the events and the venues for the weekend. The Family Reunion weekend attracted nearly 50 participants, 14 of which embarked on their first experience with NSBE IAE.







IAE BOLTS Program

Carrie Woods | Membership Chair

In September, NSBE Recruitment Month, the Indianapolis Alumni Extension kicked off the IAE BOLTS program. IAE BOLTS is a membership incentive program that encourages IAE members to participate in growing the chapter as well as growing the programming provided to the membership. The NSBE bolt represents the striking impact that will be felt by the society and the industry due to the contributions and accomplishments made by the dedicated members of NSBE. This year the IAE chapter is quickly growing and is looking to be BOLTS in the local community, in our workplaces and in the National Society of Black Engineers. IAE's leadership is challenging its members to participate in planning programming through committee participation, to grow membership by bringing a friend or coworker to join the chapter and to be good standing stewards of the organization. These initiatives are essential in growing a chapter that serves its members with programming that will allow individuals and the IAE chapter to grow.

IAE BOLTS is a point-based system that will allow members to accumulate points through their participation. These points can then be redeemed for great gifts. Members who have accumulated the most points will receive discounts on registration to the 2013 National Convention, IAE polo shirts, and one lucky member will attend the National Convention for FREE!

Points are awarded as follows:

NSBE sponsored Event Attendance- 5pts
IAE committee participation- 5pts
Bringing a guest who joins the local chapter- 20pts
Renewing local or national dues- 40pts
Being a good standing member (national and local paid dues)- 60pts



Professionalism Embodied

Jenai Alexis | Professional Development Chair

The first Professional Development program of the year featured an ideal example of professionalism within the African American community of Indianapolis. The NSBE-IAE membership was addressed by one of its own; Sahara L. Williams P.E, President of Enginuity Engineering and Management. Sahara gave first hand advice on two critical technical professional development topics; Obtaining the P.E (Professional Engineer) License and Starting/Running your own business.

Sahara is a registered Professional Engineer with ten years experience in the building construction industry. She has experience in structural design, utilities, roadway and building construction inspection, and project management. She has managed multiple multi-million dollar projects in areas ranging from program development to construction. Sahara has worked on projects as small as a fall protection anchor in an industrial facility to a five-story parking garage; and as simple as a beam inspection and replacement to the Ground Transportation Center at the Indianapolis Airport.

In order to garner such respect and success in the industry, Sarah first had to obtain her Professional Engineering (P.E) license. She informed the membership on how to go about obtaining a PE license which includes graduating from an institution of higher learning with an approved engineering curriculum, then amassing 4 years of experience under the supervision of a professional engineer. After which two exams need to be passed: the FE exam and the PE exam. These exams can be taken twice a year in April and October. Upon successful completion of these examinations, and obtaining the license, one must pay a renewal fee of \$100.00 on July31st of every even year. Along with the monetary commitment, 30 continuing education credits are required every two years.

With her P.E license in hand Sahara decided to start her own engineering business and gave the membership an insight into starting and running a business. She touched on four main topics including: Registration of a new business, Office management, Marketing and Sales, and Quality and Delivery.

Sahara applies the advice that she gave to the membership to her very own business on a daily basis, making Enginuity Engineering Management a leader in Program Management, Construction Management, Construction Inspection and Structural Engineering Design in the greater Indianapolis area.





NSBE Jr. Taking off to the Sky

LaJoi Shelton Woodard | Pre-College Initiative Chair



Dr. Miller is speaking to NSBE Jr. students about astrophysics.

On October 11, 2012, the NSBE Jr. Greater Indianapolis Chapter was invited to attend an Aerospace Workshop provided by Martin University's NASA SEMAA program. As the workshop began, all the students were greeted by LaJoi Shelton Woodard, the NASA SEMAA Lab Engineer, and Dr. Mamta Singh, Dean of the School of Science and Technology and NASA SEMAA Site Director. Following the greetings, the students were happily addressed by Martin University's President, Dr. George Miller III. He spoke about his experiences, working at NASA's Goddard Space and Flight Center as an engineer and astrophysicist. Dr Miller also explained to the students the basic concepts of rocketry, and how the math and physics learned in school played a key role in the decision making process for designing and launching a rocket.

Engaging the students further, Dr Miller took us to the university's Gathertorium, where the students participated in a demonstration on why NASA launches rockets from Cape Canaveral in Florida as opposed to other NASA centers in the United States. The students formed a line that rotated around an axis (Brianna Hibbler), just as the Earth does, and one student (LeighAnn McGregor) played the role of being a rocket. The students began to understand that the further they were from the center, the faster they had to move. With this concept mastered, the students understood that the rocket should be launched from the furthest point, because at this point, the rocket gains enough speed behind it, and is launched more efficiently.

The students had a laugh trying to make sure they were able to stay in a line together, and they were happy to be learning in a fun, academic environment. "I really enjoyed Dr. Miller speaking to us because he explained how many things in NASA worked and he was interactive and engaging," said Brianna Hibbler, Chapter President.



Bryce is about to take off on the Flight Simulator while Mark helps guide him.

After Dr. Miller's speech and demonstrations, the students sat at the AEL (Aerospace Education Laboratory) workstations and began to learn about the principles of aeronautics. This activity would get them ready for their first flight on the Lab Flight Simulator. However, to determine who went first, we had an aircraft design competition to determine who could create the most fiscally efficient plane for a trip from Washington D.C. to San Francisco. The students were excited and had a great time with this task. Mark Rogers II won with the lowest estimated airfare of close to \$190.

Mark and LeighAnn were the first ones to be able to fly the Flight Simulator. "It's harder than it looks," LeighAnn stated after her first takeoff. Despite that, she, along with all of the students, had a great time and are looking forward to their next NSBE Jr. Academic workshop. "I believe that this was a great learning experience for the students and even for the parents. Join us and get involved, because your involvement helps support the students' interest in STEM and fulfills NSBE's mission: "To increase the number of culturally responsible black Engineers who excel academically, succeed professionally, and positively impact the community."



College Initiative Student Spotlight



Name: Devon Renae Leary

Hometown: Cincinnati, OH

Major: Mechanical Engineering Technology

Institution: Indiana University Purdue University Indianapolis (IUPUI)

Career Aspirations: United States Air Force

Hobbies: Working out, Eating, Traveling, Cosmetology, and

Swimming

What are some of your inspirations in life?

My faith in God, giving back to others, taking each day of life as a lesson learned.

How many years you been in NSBE and how has it impacted you?

I have been involved with NSBE for 2 years. Through NSBE I have received interviews with Rolls Royce and other major companies, and I have been able to network with industries and develop lifetime friendships. I also serve on the IUPUI Eboard & CPC.

In 10 years where do you see yourself?

I see myself living in Georgia on a lot of land working at an amazing company with an energy efficient car, living in a cute little house, and always giving back to the community.

Alumni Spotlight



Name: Angelos Erilus (Collegiate Initiative Chair)

Hometown: Hollywood, Fl

Degree: Bachelors of Science in Computer Engineering

Occupations: Software Engineer

Hobbies: Sports, Music

What are some of your inspirations in life?

My inspiration in life is to do Gods will, and to provide for my family.

How many years you been in NSBE and how it has impacted?

This is my first year as a full-time NSBE member. I was a part-time member in undergrad.

In 10 years where do you see yourself?

I see myself as high level engineering with a beautiful family, doing Gods will, and still being active in NSBE.



Circle City Classic Parade

Bianca Brown | Chair



As NSBE – Indianapolis Alumni Extension prepares to serve as the host Alumni Chapter for the 39th Annual Convention held in Indianapolis, IN March 27-March 31, we thought it was only fitting to participate with the Annual Convention Planning Committee and NSBE Students from IUPUI in this year's Circle City Classic Parade. The parade was held on Saturday October 6th at 10AM. Collectively, fifteen members of NSBE braved the elements and came out in full force wearing newly designed Convention T-shirts to promote OUR Convention in OUR city!

NSBE partnered with Indianapolis Public Schools Career Technology Magnet Program and IUPUI to showcase the "Bridge to Success" float in the parade. IPS high school students dressed in outfits representing various technical careers as well as corvettes where prominent members of NSBE were featured. Other NSBE members interacted with the crowd by passing out Annual Convention flyers and informing people in the community about NSBE.

Overall this was a great event and a great way for NSBE-IAE to actively participate in Annual Convention activities. Those that participated received a free NSBE Annual Convention t-shirt as well as tickets to the Circle City Classic Football Game.

A big thank you goes out to all who participated and to-helped make this event a huge success.





A Walk For Education – NSBE Indianapolis Alumni Extension

Bianca Brown | Chair

NSBE Indianapolis Alumni Extension progressed into the TORCH month of the 2012-2013 year with the highly esteemed Walk for Education event. This was a great opportunity for members to get involved in a wonderful community service experience while showcasing themselves as an example of a successful college graduate. The event was organized and planned by NSBE-IAE's Community Service Chair, Chinwe Aneke. The Walk was held on October 20 at Irvington United Methodist Church. There were as many as 20 volunteers in attendance for the event which included IAE and Cincinnati Alumni members, members from NSBE's IUPUI collegiate chapter as well as the National T.O.R.C.H. Chair, Mario Hulett. The volunteers arrived by 9:30AM where they were provided coffee, breakfast, a NSBE button and their AWFE packets. The volunteers participated in a Volunteer Safety Briefing that was given by the National T.O.R.C.H Chair and an overall Walk briefing given by the Event Chair. The volunteers were divided into groups of 2-3 members and were provided with maps of the general neighborhood prior to departure.

Mid-event a change was made to identify another neighborhood in close proximity that had a larger African-American population. As a result of this change, the volunteers were able to meet with many African-American families who greatly appreciated the information that was shared, accepted the AWFE college education packets and vowed to utilize it to the benefit of their families and children. Overall, the 2012 NSBE - Indianapolis Alumni Extension AWFE was still a huge success. Each volunteer expressed the appreciation to interact with other NSBE members and positively impact the community through our community outreach efforts.

Upcoming Events

Region IV Fall Regional Conference.

November 9th to 11th.

IMJPC's Annual Holiday Soul Celebration

Saturday, December 8th at 6.30pm Indianapolis Marriot East (7202 East 21st Street, Indianapolis, IN 46219) \$40 in advance, \$45 at the door

GE Professional Development Webinar with the African American Forum Legacy for NSBE-AE

November 7th, 8pm-9pm







1st Professional Development Conference



Our very own Programs Chair, Michael Obu pictured above with NSBE Region IV Alumni Extension Chair Elect, Ms. Ivy White

NSBE Region IV AE Leadership Conference



The Indianapolis Alumni Extension Executive Board pictured to the left. From left to right: Chinedum Ofodile (IAE Member), Olaide Quadry (Vice-chair), Angelos Erilus (CI Chair), Bianca Brown (Chair), Lajoi Shelton-Woodard (PCI Chair), Emeka Ene (PR Chair), TeeJay Momoh (Finance Chair).



39th Annual Convention

Where: Indianapolis, Indiana When: March 27th - 31st, 2013

If you are planning to attend Annual Convention here in Indianapolis in March 2013, NOW is the time to register!!!

Right now, Registration for Alumni members is \$200....but there is a 40% discount being offered up through **December 15. This means that if you** register today, you only pay \$120!!!!

NSBE-IAE, act now! WE WANT 100% REPRESENTATION! THIS IS THE TIME TOREGISTER FOR ANNUAL CONVENTION!!! REGISTER TODAY!!!!

*upon registration you must enter registration code: Indy40 to receive the discount.

For more information, please visit http://www.nsbe.org/Convention/Convention/TPCMini-Conference.aspx

Annual Convention will feature events such as:

STEM Public Policy Forum – Hosted by Mike Muse

Less Talk, More Action (LTMA) with CNN Contributor Ryan Mack

PCI Awards Luncheon with Entrepreneur Delano M. White (Author of 'Taking my Soul to the Laundromat: From Prison Walls to Executive Halls')

Distinguished Lecture Series Featuring Dr. Randal Pinkett (Chairman and CEO, BCT Partners. Author of 'Black Faces in White Places', 'No-Money Down CEO', and 'Campus CEO'.)

PCI Kick-Off Breakfast with Dr. Aprille J. Ericsson (Aerospace Engineer, NASA)









PHOTO ALBUM

IAE PhotoBook See More on facebook





NSBE AE's Professional Leadership

Here is your 2012 – 2013 National, Regional and Chapter Alumni Extension Leadership

